

ABSTRACT OF THE DISCLOSURE

A converter with a damping mechanism for preventing resonances that includes a rectifier, an inverter and an intermediate circuit which connects the rectifier to the inverter. The intermediate circuit includes a first conductor connected to a first potential, a second conductor connected to a second potential that is different than said first potential and a current-compensated choke looped into the first conductor and the second conductor. The current-compensated choke includes a first winding and a second winding, wherein a first current flowing from the rectifier to the inverter flows through the first winding and a second current flowing back from the inverter to the rectifier flows through the second winding.